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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/763,807	06/15/2001	Michael Vincent Lewis	021238-437	3685	
21839	7590 07/21/2003				
BURNS DOANE SWECKER & MATHIS L L P			EXAMINER		
POST OFFICE ALEXANDRI	E BOX 1404 A, VA 22313-1404		JARRETT,	JARRETT, RYAN A	
			ART UNIT	PAPER NUMBER	
			2125	11	
			DATE MAILED: 07/21/2003	11	

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u> </u>	Application No.	Applicant(a)					
•	Application No.	Applicant(s)	De				
Office Action Commons	09/763,807	LEWIS ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ryan A. Jarrett	2125					
The MAILING DATE of this communication app Period for Reply	pears on the cover shee	t with the correspondence addre	ss				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl- If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may within the statutory minimum owill apply and will expire SIX (6) a, cause the application to become	by a reply be timely filed If thirty (30) days will be considered timely. MONTHS from the mailing date of this communication (25 U.S.C. § 133).	unication.				
1) Responsive to communication(s) filed on 04.	<u>June 2003</u> .						
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non-final.						
3) Since this application is in condition for allows closed in accordance with the practice under			nerits is				
Disposition of Claims	on annulina in the email	andina					
4) Claim(s) <u>1-6,8-16,18-29,31-43 and 45-50</u> is/a		cation.					
4a) Of the above claim(s) is/are withdra	wn from consideration.						
	Claim(s) is/are allowed.						
	☐ Claim(s) 1-6,8-16,18-29,31-43 and 45-50 is/are rejected.						
7) Claim(s) is/are objected to.	or alastian requirement						
8) Claim(s) are subject to restriction and/o	or election requirement.						
9) The specification is objected to by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		by the Examiner.					
Applicant may not request that any objection to th							
11) The proposed drawing correction filed on	_ is: a) ☐ approved b)[disapproved by the Examiner.					
If approved, corrected drawings are required in re	ply to this Office action.						
12) The oath or declaration is objected to by the Ex	kaminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) 🔀 Acknowledgment is made of a claim for foreign	n priority under 35 U.S	C. § 119(a)-(d) or (f).					
a)⊠ All b) Some * c) None of:							
 Certified copies of the priority document 	ts have been received.						
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prio application from the International Bu* See the attached detailed Office action for a list	ireau (PCT Rule 17.2(a	a)).	ıge				
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S	c.C. § 119(e) (to a provisional ap	plication).				
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _ 	5) Notic	riew Summary (PTO-413) Paper No(s). e of Informal Patent Application (PTO-1 :					
S. Patent and Trademark Office			·· ··				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 6/4/03 have been fully considered but they are not persuasive. Applicant argues that Arthur et al. U.S. Patent No. 4,463,766 does not teach the features in independent claims 1, 19, 35, 47, and 48, particularly devices for monitoring and affecting parameters of the rod maker, the tipper, and/or the cigarettes being manufactured. Examiner points to claims 1-5 of Arthur et al. as further illustration of the relevant teachings. Arthur et al. claims (col. 8 line 22) "automatically controlling the speed of said second motor in response to the rate at which separate rod portions are cut from the continuous rod by said rod cutting device." The first motor controls the rod-cutting device. The second motor drives the garniture tape. The speed of both motors is sensed by a device that receives pulsed signals directly or indirectly from a rotary part on the motors. The device then converts the pulsed signals into a DC voltage that is proportional to the frequencies. The device then uses the relative values of the two DC voltages to control the speed of the second motor. Thus, the "monitoring" and "affecting" aspects of the claimed invention are clearly taught by Arthur et al. Additionally, the Wilkinson et al. reference has been used to reject amended claim 8.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Page 3

Application/Control Number: 09/763,807

Art Unit: 2125

Claims 1-6, 8-16, 18-29, 31, 34-36, 43, 45, 47, and 48 are rejected under 35 3. U.S.C. 102(b) as being clearly anticipated by Arthur et al. U.S. Patent No. 4,463,766. Referring to claims 1, 19, 35, 47, and 48, Arthur et al. discloses a cigarette manufacturing apparatus and method comprising: a tobacco rod maker for making double length tobacco rods (col. 1 lines 48-50); a tipper for applying filters to tobacco rods to form filter tipped cigarettes (col. 3 lines 16-24); a transfer apparatus for transferring double length tobacco rods from the rod maker to the tipper (col. 3 lines 16-24); wherein each of the tipper and the rod maker comprises a plurality of devices for monitoring and a plurality of devices for affecting parameters of the rod maker, the tipper or the cigarettes being manufactured, and wherein one or more of said monitoring devices and said parameter affecting devices both monitors and affects parameters (col. 7 lines 13-68); a controller for controlling the plurality of devices on the tipper and the rod maker, including varying one or more parameters of the rod maker, the tipper and/or the cigarettes being manufactured, in response to conditions monitored by one or more of said devices (Fig. 1 reference number 23, col. 7 lines 13-68); a field bus, the plurality of devices and the controller each being connected to the field bus (Fig. 1 reference number 23); a second controller (HMI) for providing tipper, rod maker and cigarette information to an operator and for communicating input data from the user to one or both of the first and second controller (implicit in the term "console" used by Arthur et al. used in col. 3 lines 52-59); a plurality of synchronized motors each for driving a respective operation in the tipper or rod maker (col. 1 line 57 – col. 2 line 12);

Art Unit: 2125

and a motion control device for controlling the plurality of synchronized motors (col. 1 line 57 – col. 2 line 12).

Referring to claims 2-4, 11-18, 20-28, 31, 36, Arthur et al. discloses that the motion controller is connected to the controller and the field bus; comprising at least one human-machine interface (HMI) connected to the field bus; wherein the at least one HMI comprises a rod maker HMI and a tipper HMI, each of the rod maker HMI and the tipper HMI being connected to the controller via the field bus; comprising at least one human-machine interface (HMI) connected to the controller; wherein the at least one HMI is connected to a external communications network; wherein at least one of the plurality of devices is connected to the field bus via an interface; wherein at least one of the devices transmits data including diagnostic data to the controller over the field bus; wherein the tipper controller and rod maker controller are interconnected; further comprising a motion controller by the first controller for synchronizing a plurality of motors on one or both of the rod maker and the tipper (col. 7 lines 13-68, Fig. 1 reference numbers 21, 22, 23, 24, 25, 27, 28).

Referring to claims 5, 6, 8-10, 29, 34, and 43-45, Arthur et al. additionally discloses that the plurality of motors includes a cut-off motor for driving a device for cutting individual tobacco rods, a suction chamber motor for driving a suction belt, a garniture belt drive motor, and a hopper motor for controlling the rate at which tobacco is drawn from a hopper; wherein the rotational speed of the suction chamber motor, the garniture belt drive motor and the hopper motor are synchronized to the rotational speed of the cut-off motor; wherein the plurality of motors further includes an ecreteur

Art Unit: 2125

motor for driving a dense end cam and a pair of ecreteur discs, and a printer motor for driving a printer to print onto the cigarette wrapping paper; wherein the ecreteur motor and the printer motor are speed and position synchronized to the cut-off motor; wherein the plurality of motors further includes a tipper motor for driving a tipper drum train, wherein the tipper motor is synchronized to the position of the cut-off motor; wherein the synchronized motors include motors synchronized by speed and motors synchronized by position (col. 3 line 60 – col. 4 line 20).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arthur et al. as applied to claim 5 above, and further in view of Wilkinson et al. U.S. Patent No. 5,902,431. Arthur et al. does not appear to disclose a bobbin changer capstan motor. However, Wilkinson et al. discloses a composite web forming apparatus comprising a bobbin changing motor that is synchronized to the speed of the filter attachment motor (e.g. col. 4 lines 40-55). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Arthur et al. with Wilkinson et al. in order to synchronize bobbin changing with other motor functions in a cigarette processing machine, as taught by Wilkinson et al.

Art Unit: 2125

6. Claims 32, 33, 37-42, 49, and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arthur et al. as applied to claims 11, 20, 35, and above, and further in view of Official Notice. Referring to claims 37-42, Arthur et al. discloses sending a stop signal to the field devices. Arthur also discloses slowing down the motor of the filter attachment machine so that the operation of the machine can be checked, presumably for faults (col. 6 line 57 – col. 7 line 12). Arthur et al. does not specifically disclose that stop signal indicates a fault condition, such as a protective guard on the rod maker or tipper not being in place, and communicating the cause of the stop signal along with component identification information. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Arthur et al. to include the aforementioned features since Examiner takes Official Notice that it is well known to communicate fault information of this kind in a manufacturing operation so that the fault can be identified and repaired quickly and waste can be avoided as taught by Arthur (col. 6 line 68 and col. 7 lines 13-19).

Referring to claims 32, 33, 49, and 50, Arthur et al. does not specifically disclose that the HMI is configured to display to the operator one of a hierarchical set of display screens; wherein at least one of the set of screens includes rows areas representing buttons for controlling rod maker or tipper functions. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Arthur et al. to include these features since Examiner takes Official Notice that it is well known in the art to use these types of display screen configurations to control machine functions in a manufacturing process.

Art Unit: 2125

7. Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arthur et al. as applied to claim 35 above, and further in view of Lorenzen U.S. Patent No. 3,720,815. Arthur et al. does not disclose that the machine controller looks for a signal on the field bus indicating that a wrapping paper bobbin or a tipping paper bobbin is nearly exhausted and, if the signal is detected, initiates a routine to splice a fresh paper bobbin onto the present paper bobbin. However, Lorenzen discloses a machine controller looks that looks for a signal indicating that a wrapping paper bobbin or a tipping paper bobbin is nearly exhausted and, if the signal is detected, initiates a routine to splice a fresh paper bobbin onto the present paper bobbin (col. 10 line 55 – col. 11 line 14). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Arthur et al. with Lorenzen since Lorenzen teaches that a detection system such a this can prevent excessive losses in output or damage to machine parts (col. 2 lines 10-36).

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2125

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ryan A. Jarrett whose telephone number is (703) 308-

4739. The examiner can normally be reached on 9:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Leo Picard can be reached on (703) 308-0538. The fax phone numbers for

the organization where this application or proceeding is assigned are (703) 746-7239 for

regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 305-

L-P.P.

3900.

raj

July 15, 2003

LEO PICARD SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100 Page 8